Appl. No.10/773,788

Attorney Docket No.: 113394 CON RECEIVED
CENTRAL FAX CENTER

CLAIMS

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1-38. Canceled.

I	39. (New) A method for use in a communication system, the
2	communication system including at least first, second and third gatekeepers having
3	respective associated subscriber terminals, the method comprising
4	the first gatekeeper receiving a request for information from one of its
5	associated subscriber terminals;
6	if the information is not known by the first gatekeeper, the first gatekeeper
7	sending the request only to the second gatekeeper,
8	if the information is not known by the second gatekeeper, the second
9	gatekeeper sending the request only to the third gatekeeper, and
10	if the information is known by the third gatekeeper, the third gatekeeper
11	sending the information to the first gatekeeper,
12	wherein each of the first, second and third gatekeepers communicates with its
13	respective associated subscriber terminals over a respective communication path that
14	does not include any other gatekeeper,
15	wherein each of the first, second and third gatekeepers establishes
16	communication among its associated subscriber terminals,
17	and wherein the communication between the subscriber terminals associated
18	with the first gatekeeper passes through no gatekeeper other than the first gatekeeper
19	the communication between the subscriber terminals associated with the second
20	gatekeeper passes through no gatekeeper other than the second gatekeeper, and the
21	communication between the subscriber terminals associated with the third gatekeeper
22	passes through no gatekeeper other than the third gatekeeper.
1	40. (New) The invention of claim 39 wherein the third gatekeeper sends the

41. (New) The invention of claim 39 wherein the requested information is

information to the first gatekeeper via the second gatekeeper.

2 an address.

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- 1 42. (New) The invention of claim 41 wherein said address is an application 2 address, a network address or a resource address.
- 1 43. (New) The invention of claim 39 wherein the requested information is 2 information about a resource.
- 1 44. (New) The invention of claim 43 wherein said resource is one of: 2 bandwidth, a port, a buffer, a link, a trunk, processing unit capacity, and a quality-of-3 service parameter.
- 1 45. (New) The invention of claim 39 wherein each of the gatekeepers is 2 adapted to use signaling messages conforming to International Telecommunications 3 Union standard H.323 to receive and transmit information between at least itself and 4 its respective subscriber terminals.
- 46. (New) A communication system comprising at least first, second and third gatekeepers and a plurality of communicating entities, the first, second and third gatekeepers being adapted to receive and transmit signaling messages among themselves,
 - wherein the first gatekeeper directly communicates gatekeeper-to-gatekeeper information request signaling messages only with the second gatekeeper,
- wherein the second gatekeeper directly communicates gatekeeper-togatekeeper information request signaling messages with the first gatekeeper and the third gatekeeper,
- wherein the third gatekeeper directly communicates gatekeeper-to-gatekeeper information request signaling messages with the second gatekeeper but not with the first gatekeeper,
- wherein the first, second and third gatekeepers are all at a single gatekeeper hierarchical level within the communication system,
- wherein each of the first, second and third gatekeepers is adapted to receive and transmit signaling messages between itself and associated ones of the

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- communicating entities over a respective communication path that does not include any other gatekeeper,
- wherein each of the first, second and third gatekeepers is further adapted to establish communication between its associated communicating entities,
- and wherein the communication between the communicating entities
 associated with the first gatekeeper passes through no gatekeeper other than the first
 gatekeeper, the communication between the communicating entities associated with
 the second gatekeeper passes through no gatekeeper other than the second
 gatekeeper, and the communication between the communicating entities associated
 with the third gatekeeper passes through no gatekeeper other than the third
 gatekeeper.
- 1 47. (New) The invention of claim 46 wherein ones of said gatekeeper-to-2 gatekeeper signaling messages include requests for at least one of an application 3 address, a network address and a resource address.
 - 48. (New) The invention of claim 46 wherein ones of said gatekeeper-to-gatekeeper signaling messages include requests for information about a resource.
- 1 49. (New) The invention of claim 48 wherein said resource is one of: 2 bandwidth, a port, a buffer, a link, a trunk, processing unit capacity, and a quality-of-3 service parameter.
- 1 50. (New) The invention of claim 46 wherein at least said gatekeeper-to-2 gatekeeper signaling messages conform to an international standard for packet-based 3 communications.
- 1 51. (New) The invention of claim 46 wherein at least ones of the 2 communicating entities are terminals, gateways, multipoint control units or 3 communication networks.

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52. (New) The invention of claim 39 wherein the first gatekeeper is adapted
to cache information received by the first gatekeeper from another one of the
gatekeepers so that if the first gatekeeper is again requested for said information, the
first gatekeeper will be able to provide said information to the source of the request.

- 53. (New) The invention of claim 46 wherein each particular gatekeeper that receives requested information from another one of the gatekeepers stores that information within that particular gatekeeper so that if that particular gatekeeper is again requested for said information, it will be able to provide said information to the source of the request.
- (New) A method for use in a communication system in which at least 1 first, second and third gatekeepers are each connected to one or more associated 2 subscriber terminals via one or more networks, in which each of the at least first, 3 second and third gatekeepers has a respective associated database, and in which each 4 of the at least first, second and third gatekeepers, in response to a request for 5 information from a requesting one of its associated subscriber terminals, provides the 6 requested information from that gatekeeper's associated database to the requesting 7 subscriber terminal if that gatekeeper's associated database contains the requested 8 information, the method comprising 9

the first gatekeeper receiving from a requesting one of its associated subscriber terminals a request for information that is not contained in the database associated with the first gatekeeper,

the first gatekeeper sending the request only to the second gatekeeper, if the information is not contained in the database associated with the second gatekeeper, the second gatekeeper sending the request only to the third gatekeeper, and

if the information is contained in the database associated with the third gatekeeper, the third gatekeeper sending the information to the first gatekeeper, wherein each of the first, second and third gatekeepers is adapted to receive

and transmit signaling messages between itself and its associated subscriber

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- terminals over a respective communication path that does not include any other gatekeeper,
- wherein each of the first, second and third gatekeepers is further adapted to establish communication between its associated subscriber terminals,
- and wherein the communication between the subscriber terminals associated
 with the first gatekeeper passes through no gatekeeper other than the first gatekeeper,
 the communication between the subscriber terminals associated with the second
 gatekeeper passes through no gatekeeper other than the second gatekeeper, and the
 communication between the subscriber terminals associated with the third gatekeeper
 passes through no gatekeeper other than the third gatekeeper.
- 1 55. (New) The invention of claim 54 wherein the third gatekeeper sends the information to the first gatekeeper via the second gatekeeper.
- 1 56. (New) The invention of claim 54 wherein the requested information is 2 an address.
- 1 57. (New) The invention of claim 56 wherein said address is an application 2 address, a network address or a resource address.
- 1 58. (New) The invention of claim 54 wherein the requested information is information about a resource.
- 1 59. (New) The invention of claim 58 wherein said resource is one of: 2 bandwidth, a port, a buffer, a link, a trunk, processing unit capacity, and a quality-of-3 service parameter.
- 1 60. (New) The invention of claim 54 wherein each of the gatekeepers is 2 adapted to use signaling messages conforming to International Telecommunications . 3 Union standard H.323 to receive and transmit information between at least itself and
- 4 its respective subscriber terminals.